

# DOD HUMAN TICK TEST KIT PROGRAM

## Ticks Removed from Humans, CY 2005

| Tick Species  | Identified  | Tested      | Positive Results |                  |                  |                 |                  |                    |                   |                 |
|---|-------------|-------------|------------------|------------------|------------------|-----------------|------------------|--------------------|-------------------|-----------------|
|   |             |             | LD <sup>1</sup>  | Bab <sup>2</sup> | HGE <sup>3</sup> | EE <sup>4</sup> | HME <sup>5</sup> | STARI <sup>6</sup> | RMSF <sup>7</sup> | RP <sup>8</sup> |
| <i>Amblyomma americanum</i> (lone star tick)                  | 2013        | 1998*       | ---              | ---              | ---              | 27              | 13               | 15                 | ---               | ---             |
| <i>Dermacentor variabilis</i> (American dog tick)             | 274         | 273         | ---              | ---              | ---              | ---             | ---              | ---                | 0                 | ---             |
| <i>Ixodes scapularis</i> (blacklegged tick, a.k.a. deer tick) | 401         | 396*        | 90               | 7                | 10               | ---             | ---              | ---                | ---               | ---             |
| <i>Amblyomma maculatum</i> (Gulf Coast tick)                  | 11          | 11*         | ---              | ---              | ---              | ---             | ---              | ---                | ---               | 1               |
| <i>Ixodes cookei</i> (groundhog tick)                         | 1           | 0***        | ---              | ---              | ---              | ---             | ---              | ---                | ---               | ---             |
| <i>Ixodes pacificus</i> (western blacklegged tick)            | 3           | 3           | 0                | 0                | 0                | ---             | ---              | ---                | ---               | ---             |
| <i>Rhipicephalus sanguineus</i> (brown dog tick)              | 7           | 7           | ---              | ---              | ---              | ---             | ---              | ---                | 0                 | ---             |
| <b>Totals</b>   | <b>2725</b> | <b>2695</b> | <b>90</b>        | <b>7</b>         | <b>10</b>        | <b>27</b>       | <b>13</b>        | <b>15</b>          | <b>0</b>          | <b>1</b>        |

1. Lyme disease, caused by *Borrelia burgdorferi*

2. Babesiosis, caused by *Babesia microti*

3. Human granulocytic ehrlichiosis, caused by *Anaplasma phagocytophilum*

4. Human monocytic ehrlichiosis, caused by *Ehrlichia ewingii*, a pathogen formerly only known to cause canine granulocytic ehrlichiosis

\* 1 of these ticks was coinfecting with *B. lonestari* and *E. chaffeensis*.

\*\* 6 of these ticks were coinfecting with *B. burgdorferi* and *B. microti*, 6 were coinfecting with *B. burgdorferi* and *A. phagocytophilum*, and 1 was coinfecting with *B. microti* and *A. phagocytophilum*.

\*\*\* We do not currently test *I. cookei* for Powassan virus.

5. Human monocytic ehrlichiosis, caused by *Ehrlichia chaffeensis*

6. Southern tick-associated rash illness, caused by *Borrelia lonestari*

7. Rocky Mountain spotted fever, caused by *Rickettsia rickettsii*

8. Rickettsial illness, caused by *Rickettsia parkeri*